

ABSTRACT OF THE DISCLOSURE

A single lens that has a small spot size across a large field of view and a small height. The lens has a first surface for performing color correction functions and a second surface for primarily performing light ray bending functions. The first surface has
5 diffraction efficiency improvement mechanism for improving the resolution of the lens. The lens also has a vignetting reducing mechanism for reducing the amount of vignetting in the corners of the image.

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